

ABSTRACT

The present invention relates to an isolated nucleic acid sequence encoding the Ms45 male tissue-preferred regulatory region. In one aspect this invention relates the use of this male tissue-preferred regulatory region in mediating fertility. An example of such use is the production of hybrid seed such as in a male sterility system. The Ms45 male tissue-preferred regulatory region can be operably linked with exogenous genes, such as those encoding cytotoxins, complementary nucleotidic units and inhibitory molecules. This invention also relates to plant cells, plant tissue and differentiated plants which contain the regulatory region in this invention.